

From: [Archer, Spencer](#)
To: [Zion, Rodney E CIV USARMY CENWS \(US\)](#)
Cc: [Reitter, Eric T](#); garyfulton@ferconinc.com; [Projectmail - Bunker Hill CTP USACE](#); [Bevier, Marie L](#); [Kunas, Karl J CIV USARMY CENWS \(US\)](#); [Hand, Charles](#); [Moreen, Ed](#)
Subject: Bunker Hill - Weekly O&M Update (16 July)
Date: Friday, July 20, 2018 6:46:32 AM
Attachments: [image001.png](#)
[BHCTP Data \(7-10 to 7-16\).xls](#)

Rod,

The weekly Bunker Hill Central Treatment Plant (CTP) and Kellogg Tunnel (KT) data package is attached for your review.

CTP Operations:

- Reactor pH: The pH set point was set at 8.4-8.5 during this reporting period
- 006 Effluent Zinc (Average): 0.308 mg/L (n = 3, July 6 - July 11)
- 006 Effluent pH (Average): 6.80 s.u. (n = 3, July 6 - July 11)
- 006 Effluent Turbidity (Average): 0.83 NTU (n = 7, July 10 – July 16)
- Average Monthly Lime Usage (July): 4.23 tons per day
- Flocculant Dose: Flocculant dose remained at 1.6 ppm during this reporting period

Kellogg Tunnel:

- KT Flow: Currently estimated at 1,750 gpm at this time
- KT Zinc: 146 mg/L (n = 2, June 25, June 28)
- KT pH: 2.85 s.u. (Lab - n = 2, June 25, June 28)
2.87.u. (Field - n = 2, July 12, July 16)
- The mine pool pump was removed from service at 10:30 on Wednesday July 11 and placed back into service at 12:30 Friday July 13

Lined Pond:

- Current Volume: 0.75 MG

Additional Items:

- Lime loop #2 1.5" discharge pipe failed July 6, operators replaced pipe section that failed July 10.
- CTP was placed into temporary shutdown July 12 from 08:30 - 11:30 for B&L Contracting to perform warranty repair of PVC water pipe in lime silo.
- The lime slurry pressure valve plugged with debris July 16
 - o Operators flushed the lime slurry loop to remove the blockage; lime slurry loop is back to normal operating pressure at this time.
- AMD line pigging and annual video inspections scheduled for August 14 - August 16
 - o The BH mine managers have agreed to remove the mine pool pump from service for the scheduled pigging event

Thanks,

Spencer Thomas Archer, P.E., BCEE

Mobile: +1 805 550 4050

www.woodplc.com



intended only for the named recipient(s). Its contents (including any attachments) may be confidential, legally privileged or otherwise protected from disclosure by law. Unauthorized use, copying, distribution or disclosure of any of it may be unlawful and is strictly prohibited. We assume no responsibility to persons other than the intended named recipient(s) and do not accept liability for any errors or omissions which are a result of email transmission. If you have received this message in error, please notify us immediately by reply email to the sender and confirm that the original message and any attachments and copies have been destroyed and deleted from your system.

If you do not wish to receive future unsolicited commercial electronic messages from us, please forward this email to: unsubscribe@woodplc.com and include "Unsubscribe" in the subject line. If applicable, you will continue to receive invoices, project communications and similar factual, non-commercial electronic communications.

Please click <http://www.woodplc.com/email-disclaimer> for notices and company information in relation to emails originating in the UK, Italy or France.

As a recipient of an email from a John Wood Group Plc company, your contact information will be on our systems and we may hold other personal data about you such as identification information, CVs, financial information and information contained in correspondence. For more information on our privacy practices and your data protection rights, please see our privacy notice at <https://www.woodplc.com/policies/privacy-notice>
